Solar Observations at Submm-Waves

P.Kaufmann et al.
CRAAE-Instituto Presbiteriano Mackenzie, Brazil

We report on the recent installation of the new Solar Submillimeter Telescope(SST) at the El Leoncito site, located in the Argentinean Andes, and also show first observational results. The instrument consists of a radome-enclosed 1.5-m cassegrain reflector and a system of two radiometers at 405 GHz and four at 212 GHz. The SST observes the quiet Sun and solar bursts simultaneously at both submillimeter-wave frequencies with a sampling rate of 1 millisecond. Since SST has seen the "first light" in May 1999, nearly 45 hours of continuous tracking of solar active regions were collected during short campaigns which produced first evidence for solar activity. The project has been funded by the Brazilian agency FAPESP, receiving support from the Argentinean agency CONICET through their institutes CASLEO and IAFE and from IAP, University of Bern and the Swiss National Science Foundation

Co-authors: *A.Magun, H. Levato, M. Rovira, N. Kaempfer, E. Correia, J.E.R.Costa, C.G. Gimenez de Castro, J.-P. Raulin, A.V.R. Silva & A.Luedi*